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1929
CATALOGUE OF
FIELD and GARDEN
SEEDS

Fertilizers Implements
Incubators and Brooders

POULTRY SUPPLIES

Sprayers
Spraying Materials

The Philips-Thompson
Company
Fourth and French Streets
Wilmington - Delaware



D. H. Shoemaker
Vegetable Seed Trade
MAR 27 1929

To Our Customers :

It is our desire to execute orders with the best of attention and to serve our patrons promptly. At certain "rush" seasons delays are sometimes unavoidable, and this is especially true in the seed and implement department during the Spring months, particularly on Wednesdays and Saturdays—"market days." At such times we cannot undertake to fill general orders for seeds right over the counter, and our customers will save themselves many annoying delays if they will go through our price list and, as far as possible, make up their general order of seeds and put it into our hands at least a week before delivery is wanted. In this way the order will receive more careful attention, be packed, and marked for delivery to the customer at such time as he may specify. **ORDER EARLY.**

DELIVERIES. We make no charge for delivery of general orders to customers within the City and to the Freight Stations for shipment to outside points, the purchaser paying the freight charges.

PARCEL POST. No extra charge for postage on small Vegetable Seeds at prices in this List by the ounce, quarter-pound and pound; but for Peas, Beans, Corn, Onion Sets and other goods add 8 cents for the first pound and 1 cent for each additional pound, or 10 cents for the first quart and 2 cents for each additional quart, to cover cost of mailing.

QUANTITY BASIS. Half-pound (of one variety) sold at pound rate, $\frac{1}{2}$ pecks at peck rate, $\frac{1}{2}$ bushels at bushel rate.

NON-WARRANTY. While we use great care to procure seeds of high germination and purity, and those true to name, there are so many conditions of planting and growing beyond our control, we give no warranty, express or implied, as to description, quality, or productiveness of the seeds we offer and cannot be responsible in any way for results. If the purchaser is not willing to accept them under these conditions they should be returned immediately in the original package.



Price List for 1929

FOR THE HOME GARDEN

which by reason of limited space is restricted in the number of varieties to be selected we especially recommend the following:



BEANS—Giant Snap-Short, Prolific Black Wax, Fordhook Bush Lima, Dreer's Imp. Pole Lima.
PEAS—Wonderful, Peter Pan, Gradus.
CORN—Genesee Early Sugar, Evergreen, Golden Bantam.
BEEF—Early Egyptian, Genesee Early Wonder, Detroit Dark Red.
CABBAGE—Jersey Wakefield, Danish Ballhead.
CARROT—Genesee Coreless, Genesee Half-long.
CELERY—Improved White Plume, Winter Queen.
CUCUMBER—Early Fortune, Davis Perfect.
EGG PLANT—Genesee Early Beauty.
KALE—Dwarf Siberian

LETTUCE—Genesee Early Curled, Big Boston, Genesee Wonderful.
MUSKMELON—Fordhook, Hearts of Gold.
WATERMELON—Genesee Sweet, Tom Watson.
ONION—Genesee White Globe, Yellow Prizetaker.
PARSNIP—Genesee Large Sugar.
PEPPER—Genesee Mammoth.
PUMPKIN—Improved Cushaw, Sweet Potato.
RADISH—Genesee Early Forcing, White Box, Icicle, Scarlet Turnip (white tipped).
SQUASH—Silver Custard, Red Hubbard.
TOMATO—Bonny Best, Scarlet Beauty, Stone.
TURNIP—Impr. P. T. White Globe, Golden Ball.

PLEASE READ paragraphs "TO OUR CUSTOMERS" on opposite page regarding Deliveries, Parcel Post Rates, etc.

BEANS—DWARF GREEN-POD

	Qt.	Pk.	Bus.
Bountiful Extra Early, oval pod	\$.70	....	.....
Genesee Extra Early, round pod	.70	....	.....
Giant Snap-Short, round pod	.70	....	.....
Early Red Valentine, round pod	.60	\$4.00	.....

BEANS—DWARF WAX-POD

Genesee Kidney Wax, round pod	.60	4.00	.....
Genesee Golden Wax, flat pod..	.60	4.00	.....
Prolific Black Wax, round pod..	.60	4.00	.....

LIMA BEANS—DWARF OR BUSH

Fordhook Bush Lima	.80	5.70	.....
New Century Bush Lima	.65	4.25	.....

BEANS—POLE

Genesee Early Evergreen Lima..	.60	3.80	.....
Dreer's Improved Pole Lima	.60	3.80	.....
King of the Garden Lima	.60	3.80	.....
Kentucky Wonder, green pod	.50	3.50	.....

WINTER SHELL BEANS

Boston Navy or Pea Bean	.40	3.60	.....
Large White Marrow	.50	3.25	.....

PEAS—EXTRA EARLY

	Qt.	Pk.	Bus.
Genesee Extra Early, 2 ft.	\$.35	\$2.50	.....
Improved Alaska, 2 ft.	.35	2.50	.....
Wonderful, 2½ ft.	.35	2.50	.....

PEAS—SECOND EARLY

Excelsior, 15 in.	.40	2.80	.....
Genesee Gem, 18 in.	.35	2.60	.....
Gradus, 2 ft.	.35	2.60	.....
Thomas Laxton, 2 ft.	.40	2.80	.....
Peter Pan, 18 in.	.45	3.00	.....
Laxtonian, 18 in.	.45	3.00	.....

PEAS—MAIN CROP

Genesee Advancer, 2 ft.	.30	2.20	.....
Genesee Champion, 21 in.	.40	2.80	.....
Dwarf Telephone, 21 in.	.40	2.80	.....
Mam. Sugar Mar. 3½ ft.	.40	2.80	.....
Telephone, 4 ft.	.35	2.50	.....

SUGAR CORN

Genesee Extra Early	.30	2.20	.....
Kendel's Early Giant	.30	2.20	.....
Howling Mob	.30	2.20	.....
Golden Bantam	.30	2.25	.....
Golden Giant	.30	2.20	.....
Country Gentleman	.30	2.20	.....
Improved Evergreen	.30	2.20	.....
Stowell's Evergreen	.25	1.90	.....

ASPARAGUS

	Oz.	¼ lb.	lb.
Genesee Thick-Stem	\$.10	\$.30	\$1.00
Barr's Mammoth .....	.10	.25	.75
Palmetto .....	.10	.25	.75
Giant Argenteuil .....	.10	.25	.75
Mary Washington, pedigree..	.20	.60	2.00

ASPARAGUS ROOTS

(See page 4).

BEETS FOR TABLE

Genesee Early Wonder .....	.10	.35	1.00
Lentz Blood .....	.10	.30	.90
Extra Early Eclipse .....	.10	.30	.80
Crosby's Ex. Early Egyptian	.10	.30	.90
Detroit Dark Red .....	.10	.35	1.00
Crimson Globe .....	.10	.30	.80
Half-Long Blood .....	.10	.30	.80
Swiss Chard .....	.10	.30	.80

BEETS FOR STOCK

(10 lbs. or more 40c per lb.)

Genesee Improved Sugar .....	.20	.50
Golden Giant Mangel15	.45
Red Giant Mangel15	.45

BRUSSELS SPROUTS

Improved Half-Dwarf20	.60
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CABBAGE

Sel. Early Jersey Wakefield..	.25	.75	2.25
Early Winningstadt20	.70	2.10
Charleston or Large Wakefield	.25	.75	2.25
Copenhagen Market .....	.25	.75	2.25
Early Flat Dutch .....	.25	.75	2.25
Early Summer .....	.25	.75	2.25
Surehead .....	.25	.75	2.25
Danish Ballhead (short stem)	.25	.80	2.50
Perfect Late Flat Dutch ....	.25	.70	2.10
Perfect Late Drumhead ....	.20	.60	2.00
Genesee New Savoy .....	.30	.90	3.25
Mammoth Rock Red .....	.25	....	....

CARROT

Genesee Early Coreless ....	.10	.35	1.00
Selected Early Scarlet .....	.10	.35	1.00
Genesee Half-Long .....	.10	.30	.80
Genesee Thick-Set .....	.10	.35	1.00
Improved Long Orange .....	.10	.30	.90
Guerande or Oxheart .....	.10	.35	1.00

CAULIFLOWER

	¼-pkt.	Pkt.	Oz.
Genesee Early Prize	\$.10	\$.25	\$2.00
Early Snowball .....	.10	.25	2.00

CELERY

	Oz.	¼ lb.	Lb.
Improved White Plume	\$.25	\$.80	\$2.75
Golden Self-Blanching .....	.50	1.50	5.00
Winter Queen25	.70	2.50
Giant Pascal25	.70	2.50
Flavoring10	.20	.50

CORN SALAD

Large Seeded15	.45
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CUCUMBER

Early Fortune15	.40	1.25
Improved White Spine15	.40	1.25
Improved Long Green (dark)	.15	.40	1.25
Davis Perfect Long Green (light)	.15	.40	1.25
Green Prolific (short green)..	.15	.40	1.25
Genesee Pickle .....	.10	.30	1.00
Gherkin or Burr .....	.15	....	....

EGG PLANT

Early Black Beauty .....	.40	1.40	5.00
New York Impr. Large Purple	.40	1.30	4.75

ENDIVE

Improved Green Curled .....	.15	.40	1.25
Broad Leaf .....	.15	.40	1.25

KALE (Dwarf)

Siberian (German Greens)....	.10	.25	.80
Green Curled Scotch10	.25	.80

KOHLRABI

Early White Vienna20	.60	2.00
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LEEK

American Flag20	.60	2.00
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LETTUCE

Genesee Early Curled15	.40	1.25
Grand Rapids15	.40	1.25
*Big Boston15	.40	1.25
*Genesee Wonderful .....	.15	.40	1.25
*Improved Hanson .....	.15	.40	1.25
*Genesee Iceberg .....	.15	.40	1.25
Romaine or Cos .....	.15	.40	1.25

(Head lettuce marked *)

**MUSKMELON or
CANTALOUPE**

	Oz.	¼ lb.	Lb.
Improved Jenny Lind	\$.10	\$.40	\$1.25
Fordhook .....	.15	.40	1.25
Rocky Ford .....	.10	.30	1.00
Hearts of Gold .....	.15	.40	1.25
Honey Dew, green flesh ....	.15	.40	1.25
Paul Rose .....	.10	.30	1.00

WATERMELON

Genesee Sweet .....	.10	.25	.80
Improved Dixie .....	.10	.25	.80
Kleckley Sweet .....	.10	.25	.80
Tom Watson .....	.10	.25	.80
Round Light Icing .....	.10	.25	.80
Long Light Icing10	.25	.80
Colorado Preserving Citron ..	.10	.25

MUSTARD

White London10	.25
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OKRA OR GUMBO

Dwarf Green Prolific10	.25	.75
Perfected Mammoth Pod10	.25	.75

ONION

Improved Silverskin .....	.25	.80	2.75
Genesee White Globe .....	.30	.90	3.00
Genesee Yellow Globe .....	.25	.70	2.25
Yellow Globe Danvers .....	.25	.70	2.25
Mammoth Yellow Prizetaker ..	.25	.70	2.25

ONION SETS (See page 4)**PARSLEY**

Genesee Moss Curled .....	.10	.25	.75
Hamburg (edible root) .....	.15	.35	....

PARSNIP

Genesee Large Sugar .....	.10	.20	.65
Hollow Crown .....	.10	.20	.65

PEPPER

Bullnose (Pungent) .....	.30	1.00	3.50
Ruby King (Sweet) .....	.30	1.00	3.50
Genesee Mammoth (Mild) ...	.50	1.50	....
Long Red Cayenne (Hot) ..	.30	1.00	....

PUMPKIN

Genesee Sweet Potato .....	.15	.35	1.10
Improved Cushaw .....	.15	.35	1.20
Yellow Crookneck .....	.15	.35	1.20
Genuine Mammoth .....	.15	.35	1.20
Winter Luxury .....	.10	.30	1.00
Connecticut Field .....	.10	.20	.65

RADISH—RED VARIETIES

	Oz.	¼ lb.	Lb.
Genesee Early Forcing	\$.10	\$.30	\$1.00
Vick's Scarlet Globe .....	.10	.25	.75
Scarlet Turnip, white-tipped..	.10	.25	.75
French Breakfast .....	.10	.25	.75
Crimson Giant .....	.10	.25	.75
Long Bright Scarlet .....	.10	.25	.75
Chartiers Improved .....	.10	.25	.75
China Rose Winter .....	.10	.25	.75

RADISH—WHITE VARIETIES

Genesee White Box .....	.10	.25	.75
Genesee Icicle .....	.10	.25	.75
Large White Globe .....	.10	.25	.75
Strasburg Improved .....	.10	.25	.75
Celestial or White Chinese ..	.10	.25	.75
Black Spanish10	.25	.75

SALSIFY

Mammoth Sandwich Island ..	.20	.60	2.00
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SPINACH

	¼ lb.	lb.	10 lb.
Bloomsdale Savoy	\$.10	\$.30	\$2.50
"Princess" Long Standing15	.35	3.00
Victoria Long Standing .....	.10	.30	2.50

SQUASH

	Oz.	¼ lb.	Lb.
Silver Custard (Pattypan) ..	.10	.25	.80
Golden Custard .....	.10	.25	.80
Genesee Golden Crookneck ..	.10	.30	1.00
Golden or Red Hubbard ....	.10	.30	1.00
Improved Green Hubbard ..	.10	.30	1.00

TOMATO

Genesee Early Dawn .....	.30	1.00	3.50
Spark's Earliana .....	.30	.90	3.25
Early Jewel .....	.25	.80	3.00
Bonny Best .....	.30	.90	3.25
Perfected Stone .....	.25	.80	2.75
Scarlet Beauty .....	.25	.80	3.00
Matchless .....	.25	.80	3.00
Greater Baltimore .....	.25	.80	3.00
Red Plum .....	.40	1.25	....
Yellow Pear .....	.40	1.25	....

TURNIP

	Pkt.		
Imp. Purple Top White Globe	.10	.20	.50
Purple Top Flat or Strap Leaf	.10	.20	.50
Golden Ball .....	.10	.20	.50
Large Amber Globe .....	.10	.20	.50
Purple Top Yellow Rutabaga	.10	.20	.60

HERBS	Pkt.	Oz.	¼ lb.
Anise	\$.10	\$.20	\$.60
Caraway .....	.10	.15	.30
Dill .....	.10	.15	.30
Mustard .....		.10	.25
Sage .....	.10	.35	1.00
Sweet Basil .....	.10	.20	.60
Sweet Marjoram .....	.10	.25	.75
Summer Savory .....	.10	.20	.50
Thyme .....	.10	.45	1.25

ONION SETS			32 lb.
(Prices on Application)	Qt.	Pk.	Bu.
Yellow Globe			
Japanese (Yellow)			
White Globe			

ASPARAGUS ROOTS

2-year-old size	Doz.	100	500	1000
Genesee Thick Stem	\$.30	\$1.40	\$5.50	\$10.00
Barr's Mammoth ....	.30	1.40	5.50	10.00
Palmetto .....	.30	1.40	5.50	10.00
Giant Argenteuil ....	.30	1.40	5.50	10.00
Washington Pedigreed	.50	2.25	8.50	16.00

CABBAGE PLANTS, Extra Early Frost-Proof.

Place your orders early.

These plants are grown in the South, out of doors, and are so hardy that they may be set out in March or early April, a month before it is safe to put out our home-grown plants.

	Doz.	100	500	1000	2500
Prices	\$.10	\$.50	\$1.50	\$2 25	\$5 00

SPECIAL:—In lots of 5000 we quote the low price of \$1.15 per 1000 plants f. o. b. growing station in Georgia, buyer paying expressage.

SEED POTATOES

Northern grown, from selected Seed Stock. Noted for their strong vitality, productiveness and freedom from disease.

(Prices on application)	Pk.	Bu.	150 lb. Sack
Early Red Triumph.....			
Early Bovee			
Spaulding Rose			
Irish Cobbler			
State of Maine			
Green Mountain			
Sir Walter Raleigh			
Gold Coin			
Russett			

A LARGER AND BETTER POTATO CROP
may be had by treating your seed with



SEMESAN BEL.

SEED CORN

(Prices on application)

	Qt.	Pk.	56 lb. Bus.
Improved Leaming			
Reid's Yellow Dent			
Golden Dent			
Johnson Co., White			
Red Cob Ensilage			



SEMESAN JR. used on your Seed Corn will improve the quality and yield of the crop.

CRO-TOX



PROTECTS SEED CORN against the depredation of Crows, Blackbirds, Moles, Grubworms, etc. It is non-poisonous, therefore will not kill animal-life; it repels the pests that are so destructive to seed corn after planting. It will not clog or otherwise damage seed drills.

Approximate cost 10c per acre to insure against the cost of replanting.

\$1.00 size treats 1 Bu. Corn
1.50 size treats 2 Bu. Corn

SELECTED FARM SEEDS

	Qt.	Pk.	Bushel
Western Seed Oats ..	\$.10	\$.35	\$.90-32 lbs.
Seed Rye .....	.15	.60	1.90-56 "
Barley .....	.15	.50	1.60-48 "
Japanese Buckwheat ..	.15	.55	1.80-48 "
Mammoth Sunflower..	.15	.80	2.50-25 "
Kafir Corn .....	.15	.70	2.00-56 "
Broom Corn			50 "
Sugar Cane or Sorghum	.15	.75	2.25-50 "
Canada Field Peas ..	.20	1.25	4.25-60 "

COW PEAS

New Era	\$.20	\$1.00	\$3.25-60 lbs.
Whippoorwill .....	.20	1.00	3.25-60 "
Grey Crowder .....	.20	1.00	3.25-60 "

SOY BEANS

Early Wilson .....	.20	1.00	3.25-60 "
Hairy or Winter Vetch	.30	1.90	6.75-60 "
Dwarf Essex Rape ....	.20	1.20	4.25-50 "

FORAGE CROPS form a very valuable addition to the food supply on the farm, and especially as supplementary to a short hay crop. Frequently two kinds of seed are sown together, and the following are suggested as suitable combinations.

In March or Early April

Plant Canada Field Peas with Oats.

In May or June

Plant Soy Beans or Cow Peas with Oats, Barley, Sugar Cane, or Kafir.

In September or October

Plant Winter Vetch with Rye.

GRASS SEEDS FOR THE LAWN AND FARM

It has been our constant endeavor for many years to obtain seeds of the highest quality to offer to our customers. Whenever possible we buy these seeds under a certificate of purity and germination, and as an additional precaution we submit samples to seed laboratories for testing.

The Grass Seeds listed below meet the general demand in this section of the country and are carried in stock by us; other varieties needed by our customers for special purposes can be secured very promptly. While the most of these are U. S. grown there are some varieties necessary for certain purposes that are imported. All our Grass Seed mixtures as listed below are made by ourselves from formulas based on careful study and recommendation of men long experienced in grass seeds. The seeds that go into them are the very highest grades, and our prices are reasonable for the high quality supplied.

GRASSES FOR SPECIAL PURPOSES

White Dutch Clover for Lawns

¼ lb., \$15; lb., \$50; 10 lbs., \$4.75

Brandywine Park Lawn Qt.	Pk.	Bushel.
Seed	\$35	\$2.40
Evergreen Lawn Seed	.35	2.40
For Shady Places ....	.35	2.10
Permanent Pasture .	.25	1.50

CLOVER SEED

	Qt.	Pk.	Bus.
Medium Red, Domestic .....	.75	\$5.25	\$20.50
Medium Red, Imported .....	.55	4.00	15.25
Alsike, Crown Brand .....	.75	5.30	21.00
Alsike, Standard .....	.70	5.10	20.25
Alfalfa, Crown Brand .....	.60	4.25	16.00
Alfalfa, Standard .....	.60	4.10	15.40
Mammoth Red, Crown .....	.75	5.25	20.50
Scarlet, Crown Brand .....	.35	2.25	8.25
Scarlet, Standard			
Sweet Clover, W. B. ....	.30	1.80	6.50

COARSE-LEAVED	Qt.	Pk.	Bushel.
Timothy, Crown .....	.20	\$1.15	\$4.00-45 lbs.
Timothy, Standard ...	.20	1.05	3.75-45 "
Orchard Grass .....	.20	1.20	3.60-14 "
English Rye Grass ...	.25	1.40	4.25-25 "
Domestic Rye Grass...	.20	1.10	3.50-25 "
Italian Rye Grass.....	.20	1.10	3.50-25 "
Meadow Fescue .....	.20	1.20	3.25-20 "
Golden Millet, Crown..	.20	.90	3.00-50 "
Golden Millet, Std. ....	.20	.85	2.75-50 "
Hungarian Millet ....	.20	1.00	3.25-48 "
Sudan Grass .....	.20	1.10	3.40-48 "

FINE LEAVED	Qt.	Pk.	Bus.
Ky. Blue Grass, Crown	\$35	\$2.40	\$8.50-20 lbs.
Red-Top, Crown Brand	.35	2.10	7.50-32 "
Red-Top, Standard ...	.15	.80	2.25-14 "
Creeping Bent .....	.60	4.25	20.00-25 "
Sheep's Fescue .....	.25	1.50	5.00-14 "
Red Fescue .....	.25	1.60	5 50-14 "
Hard Fescue .....	.25	1.50	5.00-14 "
Wood Meadow .....	.40	2.30	8.25-14 "
Rough Stalk Meadow..	.35	2.10	7.75-25 "

Lawn Grass Seeds, sow 5 Qts. per 1000 sq. ft.; 6 Bu. per acre.

SEEDING TABLE FOR FIELD SEEDS ON OUTSIDE BACK COVER

SELECTED LIST OF FLOWER SEEDS

SWEET PEAS, California Grown.	Oz.	¼ lb.	Lb.
Spencer Blend—A surpassingly beautiful combination of the			
Orchid flowering varieties	\$20	\$6.60	\$1.75
Superb Blend—All the best colors of the Grandiflora type .....	.15	.40	1.00
NASTURTIUMS—Tall Varieties—All colors and shadings .....	.15	.40	1.25
Dwarf Varieties—A beautiful combination .....	.15	.40	1.25

	Pkt.	¼ oz.	Oz.
Antirrhinum (Snapdragon). Giant-flowered mixed. (Annual) .....	.10	.20	.65
Asters. Giant Comet Double Flowered Mixed.....	.10	.30	1.00
Superb Late Branching Double-flowered Mixed....	.10	.30	1.00
Cosmos. Early Giant or Colossal. All the varied colors .....	.10	.20	.50
Dianthus Barbatus or Sweet William, Double-flowered Mixed .....	.20	.60	2.00
Helichrysum (Straw Flower) .....	.10	.20	.60
Pansy. Large flowered exhibition strain. Beautiful colors and markings .....	.20	.40	1.25
Salvia (Scarlet Sage), Bonfire variety. A fiery profusion of spikes .....	.20	.75	2.50
Sweet Alyssum, Little Gem or Carpet of Snow .....	.10	.20	.60
Zinnia. Large double-flowered, mixed colors .....	.10	.25	.75
Zinnia. Giant-flowering, double. Blooms freely and continues until frost .....	.20	.50	1.75

SEE RECOMMENDATION FOR THE HOME VEGETABLE GARDEN ON PAGE 1

SPRAYING SUGGESTIONS

There are four distinct classes of insects or diseases to be fought:

- (1) Scale, the chief of which is San Jose Scale, produced by sucking insects.
- (2) Chewing insects, such as potato bugs, cabbage and tomato worms, caterpillars, codling-moth, etc.
- (3) Mildew, blight, rot, mold and other fungous diseases.
- (4) Sucking insects, such as aphids, plant lice, leaf hoppers, thrips, etc.

Having determined the disease, the remedies are: For No. 1, Scalecide, or Lime-Sulphur solution. For No. 2, Arsenate of Lead, Calcium Arsenate or Paris Green. For No. 3, Bordeaux in some form, Sulfocide, or Lime-Sulphur, summer strength. For No. 4, Nicotine Sulphate as in Black Leaf 40, Lotol or Tobacco Dust.

Sometimes two objects can be accomplished in one operation. For instance, the lime-sulphur solution is now known to act against fungous diseases also and may be used, summer strength, with arsenate of lead for spraying against both No. 2 and No. 3. Another very successful combination is the use of arsenate of lead and bordeaux in one solution. Both are based on a fifty-gallon solution, and after you have made your bordeaux solution according to formula, it is an easy matter to add the proper proportion of arsenate of lead and thus in one grand operation accomplish both objects, No. 2 and No. 3. Manufacturers have now mechanically combined Arsenate of Lead or Paris Green with Bordeaux and the resulting compounds, which are satisfactory in every way, are much more convenient for the average grower than to undertake to make the mixture one's self. These compounds are listed below under Pyrox and Pestroy. To these may be added, when aphids or other sucking insects are present, Black Leaf 40 at the rate of $\frac{1}{2}$ pound to 50 gals., and thus accomplish No. 4 object as well as Nos. 2 and 3.

CALCIUM CASEINATE used in spraying solutions as a spreader and sticker, greatly increases the efficacy of the spray.

Use 1 lb. to 50 gallons of spray. (Directions on package). Prices $\frac{1}{2}$ lbs., \$.40; 5 lbs., \$1.00.

No. 1. The chief disease under this head is San Jose Scale. The spraying for this must be done when the trees are dormant, that is, after the leaves fall in the autumn and before the growth starts in the spring. Use one of the following:

LIME SULPHUR. The old standard remedy for scale. We can furnish the liquid or powder preparation.

Powder. (Dormant spraying, use 1 lb. to 4 gallons of water). Prices: Pound, \$.30; 5 pounds, \$1.25; 10 pounds, \$2.00; 25 lbs., \$4.00; 50 lbs., \$7.00; 100 lbs., \$12.50.

Liquid. (Dormant spray, use 1 gallon to 9 gallons of water). Prices: quart, \$.40; 1 gal., \$.85; 5 gals., \$3.25; 10 gals., \$5.75; 55-gal. drum, \$12.50. (Allowance of \$1.50 for the empty drums returned in good order before July 1st).

"SCALECIDE" (Miscible Oil). The use of miscible oil is increasing. Experiments have shown it to be as effective as lime-sulphur against scale, more economical, and pleasanter to work with. It may be combined with other materials for controlling other pests with one spraying operation. (Use 1 gallon to 15 gallons of water.

Prices: Quart, \$.60; 1 gal., \$1.50; 5 gals., \$6.00; 10 gals., \$10.00; 30-gal. drum, \$26.00; 50-gal. drum, \$38.00.

No. 2. Under this head are a host of chewing insects, some of them mentioned above. Every kind of plant or fruit has its particular enemy which we must fight to the death. Spraying against these is done after the growth starts in the spring and at frequent intervals. The remedies are all poisons, mostly arsenic compounds, as follows:

ARSENATE OF LEAD (powder). This is the most generally used of all the arsenic sprays both for fruit trees and vegetables.

For the former it is usually applied diluted in water at the rate of 1 to $1\frac{1}{2}$ lbs. in 50 gallons, which will also answer for vegetables. If dusting is preferred on vegetables mix 1 lb. in 10 to 25 lbs. Hydrated Lime, according to the method of application. Prices: $\frac{1}{2}$ lb., \$.20; 1 lb., \$.35; 4-lb. bag, \$1.00; case of 24 lbs., \$5.25.

CALCIUM ARSENATE (powder). More recently introduced than Arsenate of Lead, it is superseding the latter for spraying vegetables and especially in the treatment of potatoes for the beetle. It is also taking the place of Paris Green for that purpose, because it sticks to the plant much longer and is therefore more effective; also it is much less likely than Paris Green to burn and blight the vines. Use Calcium Arsenate on your potatoes and other vegetables. Mix 1 pound in 25 lbs. hydrated lime, or 2 pounds in 50 gallons of water. Prices: $\frac{1}{2}$ lb., \$.15; 1 lb., \$.25; 4 lbs., \$.65; 24 lbs., \$3.50.

PARIS GREEN (powder). The first and best known remedy for the potato bug, but Calcium Arsenate is now taking its place for that purpose. For dusting, mix 1 pound Paris Green in 50 lbs. hydrated lime or land plaster.

Prices: $\frac{1}{4}$ lb., \$.15; 1 lb., \$.45; 5 lbs., \$1.80; 14-lb. kit, \$4.85.

INSECTROGEN. Effective against caterpillars, leaf chewing insects and slugs on rose bushes. Price: $\frac{1}{2}$ pint, \$1.00.

MELROSENE (liquid). An effective remedy against rose-bugs. Does not injure bloom. Mix 1 part with 20 parts of water.

Prices: Trial can (makes 1 gallon), \$.50; pint, \$1.00; quart, \$1.75; $\frac{1}{2}$ gallon, \$3.25; gallon, \$6.00.

No. 3. Fungous diseases are to be treated under this head and the following are the most satisfactory remedies:

BORDEAUX (powder). For use on most fruits and nearly all vegetables. Mix $2\frac{1}{2}$ ounces in 1 gallon of water or 1 pound in 7 gallons. Prices: Pound, \$.30; 4 lbs., \$.90; 24 lbs., \$4.50.

SULFOCIDE (liquid). A splendid summer spray; we recommend it confidently. It keeps your trees and plants healthy and your fruit and vegetables sound. Do not use with Arsenate of Lead. Mix 1 part with 200 parts of water.

Prices: Pint, \$.50; quart, \$.75; 1 gallon, \$2.25; 5 gallons, \$8.75; 10 gallons, \$15.00.

LIME-SULPHUR (powder). Use summer strength; that is, 3 to 4 pounds in 50 gallons of water. For prices see above.

No. 2 and 3 combined. To destroy both chewing insects and fungous diseases at one operation you may combine Arsenate of Lead with Bordeaux or with Lime-Sulphur, summer strength, using the proportions given above under those different headings. But an easier way is to use one of the following compounds:

PYROX (paste, Arsenate of Lead and Bordeaux combined). The most popular spray of this character on the market. It is easy to use and wonderfully effective as an insecticide and a fungicide. For most fruit trees mix 1 pound in 5 gallons of water and for potatoes, 1 to 4. Prices: Pound, \$.45; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$11.00.

PESTROY (Arsenate of Lead and Bordeaux in powder form). Very effective, highly recommended. Use one pound in 7 gals. water. Prices: $\frac{1}{2}$ lb., \$.25; 1 lb., \$.35; 4 lbs., \$1.00.

FUNGTOGEN (liquid). For controlling mildew and blackspot on rose bushes. 4 oz. can \$.50.

No. 4. This refers to the damage done to plants by Aphis and other plant lice which suck the juices out of the leaves and consequently do serious injury to the plant life if not checked by one of the following remedies, which all contain Nicotine Sulphate:

BLACK LEAF 40 (Nicotine sulphate, liquid). One of the best remedies for these destructive insects. It may be applied separately or in connection with any of the various summer sprays mentioned above. Use 1 ounce in 6 gallons of water or liquid spray solution; $\frac{1}{2}$ pound to 50 gallons. Prices: Ounce, \$.35; $\frac{1}{2}$ lb., \$1.25; 2 lbs., \$3.25; 10 lbs., \$12.00.

LOTOL (paste). An effective remedy for insects of the Aphis type. One teaspoonful will make a gallon of spray. Price: 1 ounce tube, (makes 6 gallons), \$.25.

APHISTROGEN. Effective spray against aphid and plant lice on rose bushes. 2 oz. can \$.50.



Effective against both plant lice and chewing insects; harmless to man, animals or birds. 1 oz. makes 6 gallons of spray. Prices: 1 oz., \$.35; 6 oz., \$1.00; 16 oz., \$2.00; 32 oz. \$3.50.

TOBACCO DUST (for dusting plants). Pound, \$.10; 5 lbs., \$.40; 25 lbs., \$1.25; 100 lbs., \$4.00.

SLUG SHOT (powder, non-poisonous). An insecticide and fungicide; especially effective against slugs, cabbage and currant worms and other soft-shelled insects.

Prices: 1-lb. carton with sifter top, \$.20; 5 lbs., \$.55; 25 lbs., \$2.50; 100 lbs., \$9.50.

P-T-B. Effective in controlling peach tree borer. 1-lb. can, \$.50; 5-lb. can, \$2.25.

HELLEBORE (Powder, effective against insects). $\frac{1}{4}$ pound, \$.20; $\frac{1}{2}$ pound, \$.30; 1 pound, \$.50.

SULPHATE OF COPPER. Pound, \$.15; 5 lbs., \$.65; 10 lbs., \$1.20; 25 lbs., \$2.50; 50 lbs., \$4.50.

POWDERED SULPHUR (For dusting). Pound, \$.10; 5 lbs., \$.40; 10 lbs., \$.70; 25 lbs., \$1.40; 50 lbs., \$2.25; 100 lbs., \$4.00.

TOBACCO STEMS. Pound, \$.08; 5-lb. bag, \$.20; 20-lb. bag, \$.60; Bale (about 125 lbs.), \$1.60 per 100 lbs.

WEED KILLER (Mix 1 gallon with 40 gallons water). Quart, \$.60; gallon, \$1.75; 5 gallons, \$7.00.

SULPHO-TOBACCO SOAP. 3-ounce cake, \$.10; 8-ounce cake, \$.20; 1 pound, \$.35.

FISH OIL SOAP. $\frac{1}{2}$ pound, \$.15; pound, \$.25.

GRAFTING WAX. $\frac{1}{4}$ pound, \$.20; $\frac{1}{2}$ pound, \$.35; pound, \$.60.

PRUNING COMPOUND. Apply with brush to cuts or other surface wounds. Qt., \$.65.

TREE TANGLEFOOT (To band trees against caterpillars). Pound, \$.60; 5 lbs., \$2.75.

TANGLEFOOT FLY SPRAY (For household use). Pint, \$.75; quart, \$1.25.

CONKEY'S FLY KNOCKER (For spraying horses and cows). Quart, \$.60; 2 quarts, \$.90; gallon, \$1.50.

CREONOID FLY SPRAY (For horses and cows). Gallon, \$1.35; 5 gallons, \$4.50.

FERTILIZERS

(Prices on quantities from ton lots to carloads, quoted on application)

	5 lbs.	25 lbs.	50 lbs.	100 lbs.	500 lbs.	1000 lbs.
PURE BONE MEAL—lasting results	\$.25	\$1.00	\$1.75	\$2.90	\$13.50	\$26.00
PERUVIAN GUANO SUBSTITUTE, for garden				2.75	12.00	22.50
GRAND RAPIDS TRUCK—For garden crops.....	.25	1.00	1.50	2.25	10.50	19.00
EXCELSIOR GUANO—Good for potatoes, etc.....	.20	.75	1.25	1.90	8.00	15.00
FISH MIXTURE—General Purpose					8.50	16.00
SPECIAL POTATO .....	.20	.75	1.25	2.00	8.50	16.00
ACID PHOSPHATE, 16%				1.25	5.75	10.50
SULPHATE OF AMMONIA .....	.35	1.50	2.50	4.25	19.50	37.00
NITRATE OF SODA .....	.35	1.50	2.50	4.00	18.00	34.00
MURIATE OF POTASH .....	.30	1.25	2.00	3.50	14.50	27.00
KAINIT .....	.15	.60	1.00	1.40	6.25	11.50
LAND PLASTER .....	.15	.60	1.00	1.40	6.00	11.00
PULVERIZED POULTRY MANURE .....	.25	1.00	1.50	2.50	12.50	23.00
PULVERIZED SHEEP MANURE .....	.25	1.00	1.50	2.50	12.50	23.00
PULVERIZED COW MANURE .....	.25	1.00	1.50	2.50	12.50	23.00
SHREDDED COW MANURE			1.60	2.75	13.50	
TANKAGE .....	.25	1.00	1.75	3.30	15.00	
NITRO-HUMUS .....	.15	.50	.75	1.25	5.75	11.00
ASPARAGUS SALT .....	.15	.50	.75	1.25	5.75	11.00
HARDWOOD ASHES .....	.20	.75	1.25	2.00		

PEAT MOSS, Granulated (for lawn and flowers). Small bale \$1.50; Large bale, \$3.50.

PULVERIZED LAND LIME, for lawn, garden and field—80-lb. bag, \$.75; 6 bags for \$4.00; 12 bags for \$7.00

"LIMOID", for lawns; for whitewash; 10-lb. bag \$.25; 50 lbs., \$.75; 100 lbs., \$1.25; 1000 lbs., \$11.00.

FULTON'S Plantabbs

ODORLESS PLANT FOOD TABLETS

A Concentrated Food for House Plants

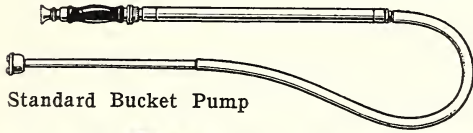
Prices: \$.25; \$.50; \$1.00 (postpaid)

Fertilizer Schedule

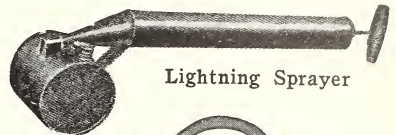
	Per 1000 Sq. Ft.	Per Acre
Pure Bone Meal	25 lbs.	1000 lbs.
Sulphate of Ammonia	5 "	200 "
Nitrate of Soda	5 "	200 "
Pulverized Poultry Manure	25 "	1000 "
" Sheep Manure	25 "	1000 "
" Cow Manure	25 "	1000 "
Nitro-Humus	50 "	2000 "
Hardwood Ashes	25 "	1000 "
Pulverized Land Lime	100 "	4000 "
Limoid	50 "	2000 "
Asparagus Salt on Beds	25 "	1000 "

Granulated Peat Moss, large bale, will cover about 600 sq. ft. as top dressing, and about 300 sq. ft. as mulch.

Spray Pumps and Accessories



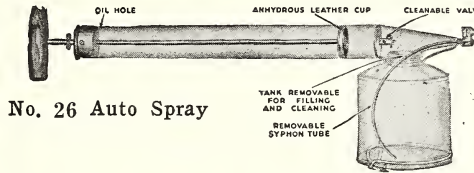
Standard Bucket Pump



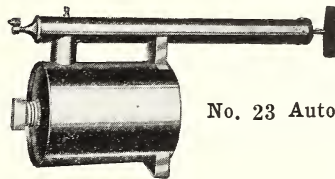
Lightning Sprayer



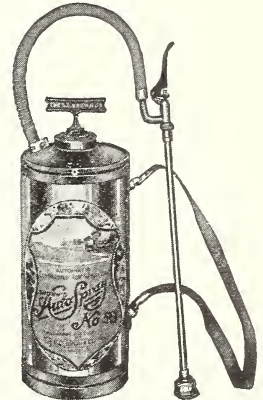
Barrel Pump



No. 26 Auto Spray



No. 23 Auto Spray



"Auto Spray" No. 9 and No. 50

"AUTO SPRAY" COMPRESSED AIR SPRAYERS (Continuous Spray)

- No. 50 "Auto Spray" with Auto-Pop, 2-gal. tank, galvanized, \$4.75; brass tank, \$6.50.
 No. 9 "Auto Spray" with Auto-Pop, 3½-gal. tank, galvanized, \$5.50; brass tank, \$8.00.
 No. 23 "Auto Spray" 3-Qt., galvanized, \$1.75.
 No. 26 "Auto Spray" 1-Qt., galvanized, \$.80; 1-Qt. brass, \$1.00; 2-Qt. galvanized, \$1.10.
 Extra Extension Pipes (brass) 2-foot lengths, for No. 9 and No. 50 "Auto Spray", each \$.45.

Standard Bucket Pump, (For spraying, whitewashing, etc.) Brass, \$4.00.

Lightning Sprayer, Tin, quart, \$.50; Galvanized Iron, quart, \$.65.

"Duster Brown" Powder Blower, \$1.00; B. D. Powder Sifter, \$.50; Dickey Powder Duster, \$.30.

Major Barrel Sprayer, including 12½-ft. hose and nozzle, \$15.00.

Century Barrel Sprayer, with 1 lead hose and nozzle, \$18.00; with 2 leads hose and nozzles, \$22.00.

Extra Hose, 12½-ft. hose with couplings only, \$3.75; complete with nozzle and connections, \$4.50.

10-foot Brass Extension Pipe (Bamboo covered), with stop-cock, \$5.00.

Nozzles, Bordo, \$1.10; Demorel, \$.80; Simplex Straight, \$.65; Simplex Angle, \$.75.

Japanese Beetle Traps, small size, \$1.00; large size, \$2.00.

Bait for Beetle Traps, small size, \$.35; large size, \$.60.

Caterpillar Torch, without pole, \$1.25; with 10-foot metal pole, \$2.25.

DO YOU NEED ANY PARTS TO PUT YOUR SPRAYER IN GOOD ORDER?



The Seed Disinfectant Divisions of the Du Pont Co., and of The Bayer Co. have been consolidated, and the Mercuric Disinfectants for the control of diseases attacking Flower, Vegetable and Field Seeds as heretofore offered by them are now being manufactured and sold by the Bayer-Semesan Co. under the trade names shown below. Directions for use with each package. Descriptive circular furnished on application.

SEMESAN—For controlling various diseases and fungoid growth affecting flower and vegetable seeds.

Prices: 2 Oz., \$.50; 8 Oz., \$1.60; 1 lb., \$2.75; 5 lbs., \$13.00; 25 lbs., \$56.25.

SEMESAN JR.—A dust treatment for preventing and controlling the ear, root and stalk rots of field and sweet corn. Prices: 4 Oz., \$.50; 1 lb., \$1.75; 5 lbs., \$8.00.

SEMESAN BEL.—A dip treatment for control of diseases common to sweet and white potatoes, and the bulbous roots of flowers. Prices: 4 Oz., \$.50; 1 lb., \$1.75; 5 lbs., \$8.00.

CERESAN—Dust treatment for control of bunt and smut in Wheat, Oats, Barley and Rye.

Prices: 8 Oz., \$.50; 1 lb., \$.75; 5 lbs., \$3.00.

Mulford Cultures

FOR LEGUMES

For Sweet Peas, Garden Peas and Garden Beans, Garden size, \$.25; 1 bu. size, \$.60.

For Clovers, all varieties: ½ Bu., \$.60; 1 Bu., \$1.00; 2½ Bu., \$2.25; 5 Bu., \$4.00.

For Cow Peas and Soy Beans: 1 Bu., \$.60; 2 Bu., \$1.00; 5 Bu., \$2.25; 10 Bu., \$4.00.

LAWN AND GARDEN TOOLS

Fountain Lawn Sprinkler, round, \$1.00; half round, \$1.00.

Garden Hose (with couplings), ¾-inch size; 25-ft. length, \$5.00; 50-ft. length, \$9.75.

Magic Weeders, size A, \$.20; size BB, \$.30; size D, \$.45; size F, \$.65.

Garden Weeder, \$.25; Dandelion Weeder, \$.20.

Garden Trowels, \$.25; Transplanting Trowel, \$.75.

Onion Hoes, 1-prong, \$.75; 2-prong	\$.85	Little Giant Grass Hook (Sickle)	\$.60
Garden Hoe, 6 or 7 in.	1.00	Garden Spade, extra strong	1.50
Garden Hoe, 5 in. ....	.80	Spading Forks, 4-prong	\$1.25 and \$1.75
Asparagus Knife .....	.40	Garden Rakes, bow frame	\$1.00 and \$1.25
Asparagus Buncher	4.75	Wire Tooth Lawn Rake .....	.80
Asparagus Tape, 1000 yards	2.75	Wood Tooth Lawn Rake .....	.75
Asparagus Braid, 1000 yards	2.00	Bamboo Lawn Rake .....	.50

TREE PRUNING KNIVES

Detroit, 6 ft., \$1.50; 8 ft., \$1.75; 10 ft.	\$2.00
Kansas, regular handle	2.50
Kansas, with extension handle	3.00

PRUNING SHEARS

Hedge Shears, 9-in. blade	\$2.25
No. 313 Pruning Shears	1.00
No. 315 Rose Shears	1.25

PLANET JR. SEEDERS AND CULTIVATORS

No. 4 Seeder, Wheel Hoe and Cultivator ..	\$17.50	No. 11, Double Wheel Cultivator	\$13.25
No. 4D Seeder only	13.75	No. 12, Double Wheel Cultivator	10.25
No. 25 Seeder, Wheel Hoe, Cultivator and Plow	21.00	No. 13, Double Wheel Cultivator	7.75
No. 31D Seeder only	9.00	No. 16, Single Wheel Cultivator	8.75
Planet Jr., Fire Fly Plow	4.00	No. 17, Single Wheel Cultivator	7.50
Planet Jr., Star Pulverizer	3.00	No. 17½ Single Wheel Cultivator	6.50
		No. 18, Single Wheel Cultivator	5.50
		No. 119, Single Wheel Cultivator	4.50

NOTE:—Extra tools for Planet Jr., carried in Stock. Repairs secured from factory promptly.

DO YOU NEED ANY PARTS FOR YOUR PLANET JR.? LOOK IT OVER NOW.

POULTRY SUPPLY DEPARTMENT

The value of the output of the poultry industry in this country continues to increase from year to year, and manufacturers of special feeds, remedies, medicines and accessories for the poultrymen endeavor to keep apace. New articles having more or less merit are continually being put on the market, so that it is impossible for the dealer to carry all of them. The articles of merchandise we offer on the following pages we believe to be among the very best on the market; the most of them have been on the market for a number of years and the continued demand for them justifies our continuing to list them herein. Among the myriad of new articles that are offered to us continually we occasionally see something that seems to have special merit, and we add it to our list. We cordially invite an inspection of these goods at our salesroom.

BUCKEYE INCUBATORS
 (Price on Application)
BUCKEYE PORTABLE BROODER

Heated with Coal-Oil Lamp

Capacity Diameter

No. 20— 60-chick	19 in.	\$8.00
No. 21—100-chick	22 in.	11.00
No. 22—150-chick	30 in.	14.00

BUCKEYE BLUE FLAME BROODER

Coal-Oil Blue Flame Burner

Capacity Diameter

No. 27A—200-chick	34 in.	\$16.75
No. 28A—350-chick	42 in.	19.50
No. 29A—500-chick	52 in.	21.50
No. 80—350-chick	42 in.	17.50
No. 81—500-chick	52 in.	18.50

(No. 28A and 29A have large burners)

BUCKEYE COAL-BURNING BROODERS

Capacity Diameter

No. 117— 350 chicks	42 in.	\$14.75
No. 118— 500 chicks	52 in.	18.50
No. 119—1000 chicks	56 in.	22.50

SMOKE PIPE AND ELBOWS

For Coal-Burning Brooders

4 or 5-inch Elbow	\$.25
4 or 5-inch Pipe, black (2 ft. length) .....	.25
4 or 5-inch Pipe, galvanized (2 ft. length) .....	.35

ALUMINIZED METAL EGG BOX

For Parcel Post Shipping

Strong	Economical	Efficient	
Capacity 1½ Doz. Eggs	Price	\$1.10	
Capacity 2 Doz. Eggs	Price	1.35	
Capacity 3 Doz. Eggs	Price	1.60	
Capacity 4 Doz. Eggs	Price	1.80	

PAPER EGG BOXES

Cardboard box, 12-egg size, for delivering to consumer. (Not for parcel post shipping).

One dozen boxes, \$2.20 125 boxes for \$1.15

Bundle of 250 boxes, \$2.00

Special price quoted in lots of 1000 or over

HUMPTY-DUMPTY EGG CARRIER

For local and parcel post deliveries

6-dozen size, \$.50 12-dozen size, \$.65

STRAWBOARD FILLERS & DIVISIONS

For 30-dozen size egg crates

Per set, for one 30-dozen crate	\$.35
Per case of 10 sets	3.00
Cushion divisions, per doz. ....	.20

ROOF SADDLE

Adjustable to slope of roof

For 4 and 5-inch smoke pipe, price\$1.50

RAIN CAPS

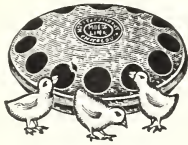
For 4 and 5-inch smoke pipe, price \$.50

PARTS FOR INCUBATORS AND BROODERS

(State style and size or number of machine for which parts are wanted)

Universal Thermometer, with holder; can be used in any Incubator	Price, \$1.00 (\$1.10 postpaid)
Buckeye Brooder Thermometer, mounted	Price, \$1.25, postpaid
Lamp Bowls for Incubators	Price, \$.75; (\$.85, postpaid)
Lamp Burners (4 styles and sizes).....	Prices, 50c, 75c and \$1.00, postpaid
Lamp Chimneys (give diameter and height).....	Price, 50c, postpaid
Lamp Wicks (specify size).....	Prices, 2 for 5c; 30c per doz. (postpaid, 5c extra)
Wicks for Blue Flame Oil Burner (2 sizes).....	40c and 65c
Brass Connecting Rod (Buckeye Incubator).....	Price, 50c, postpaid
Wafer Thermostatic Discs	75c per pair, postpaid
Tin Disc and Wire (heat damper for Incubator).....	Price, 25c (30c, postpaid)
X-Ray Egg Tester	Price, 30c, postpaid

(Prices for other parts of Incubators and Brooders furnished on application)



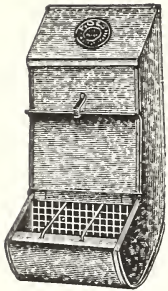
Nos. 11-12

ON THIS PAGE will be found a very complete line of sanitary galvanized metal food receptacles of various sizes and styles. The illustrations are all numbered so that they may be identified with the price list below.

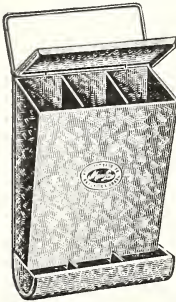
FOOD HOPPERS

For Grit, Shell, Grain, Charcoal, etc.

	Each	Six
No. 1—4 Qt., 3 spaces	\$.75	\$4.00
No. 2—8 Qt., 2 spaces .....	.75	4.00
No. 3—4 Qt., 1, 2 or 3 spaces .....	.75	4.00
No. 4—8 Qt., 1, 2 or 3 spaces	1.25	7.00
No. 5—5 Qt., 4 spaces	1.00	5.50



Nos. 6-7-8



Nos. 1 to 5

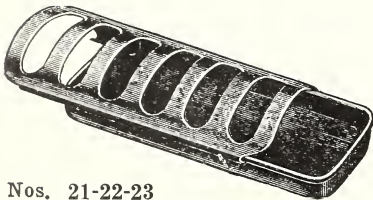
DRY MASH HOPPERS

	Each	Six
No. 6—8 Qt.	\$1.40	\$8.00
No. 7—12 Qt.	1.75	10.00
No. 8—24 Qt.	2.50	13.50
No. 30—2 Bus.	11.00	

FEEDING TROUGHS

May be used for grain or mash feeds

	Length	Capacity	Each	Doz.
Collins' Chick Feeder	.24 in.		\$.50	\$5.00
No. 21	12 in.	1½ Qt.	.25	2.50
No. 22	18 in.	3 Qt.	.40	4.00
No. 23	24 in.	4 Qt.	.60	6.00



Nos. 21-22-23

No. 55	12 in.	1 Pt.	.25	2.50
No. 56	18 in.	1½ Pts.	.35	3.75
No. 57	24 in.	1 Qt.	.45	4.50



Nos. 55-56-57

No. 58	12 in.	1 Qt.	.35	3.50
No. 59	18 in.	1½ Qt.	.45	5.00
No. 60	24 in.	2 Qt.	.60	6.00
No. 140	21 in.	8 Qt.	1.10	
No. 141	35 in.	16 Qt.	1.75	
No. 146	21 in.	12 Qt.	1.60	
No. 148	35 in.	24 Qt.	2.50	

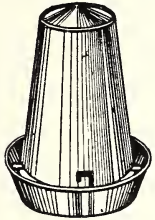


Nos. 58-59-60

No. 11	6 in. diam.	1 Pt.	.10	1.00
No. 12	8¼ in. diam.	1 Qt.	.20	2.20

Note:—Capacities as given above are approximate

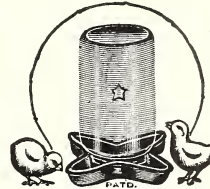
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



CONE



KEYSTONE



STAR FOUNT



PEERLESS

POULTRY DRINKING FOUNTS

All our founts open at bottom; easily filled and kept clean

	Capacity	Each	Doz.		Capacity	Each	Doz.
Stone Fount	1 Qt.	\$4.40	\$4.00	Keystone Fount	1 Qt.	\$5.50	\$5.50
Stone Fount	2 Qt.	.50	5.00	Keystone Fount	2 Qt.	.75	8.25
Stone Fount	4 Qt.	.60	6.00	Keystone Fount	4 Qt.	1.00	11.00
Stone Fount	8 Qt.	1.00	11.00	Keystone Fount	8 Qt.	1.50	16.50
Cone Fount	1 Qt.	.35	3.70	Peerless Fount	1 Qt.	.35	3.60
Cone Fount	2 Qt.	.45	4.60	Peerless Fount	5 Qt.	.85	9.00
Cone Fount	4 Qt.	.65	7.00				
Duplex Fount	4 Qt.	1.00	10.50	Mason Jar Founts			
Duplex Fount	8 Qt.	1.25	13.00	(Metal saucers to fit Mason jars)			
Twin Duplex Fount	8 Qt.	1.50	15.00	Star Fount, Rust-resisting metal,			
Mammoth Twin Duplex	5 Gal.	3.25		15c each; 2 for 25c; Doz., \$1.25.			
				Aluminum Fount, non-corroding, for feeding butter-			
				milk, 25c each; 4 for 90c; Doz., \$2.50.			

PEAT MOSS LITTER

The use of this kind of litter on the floor and dropping boards of a poultry house has several advantages. It keeps the house much drier than other kinds of litter; checks the development and spread of those diseases which are so fatal in a flock, especially with baby chicks; it absorbs the valuable fertilizing elements of the droppings, the combination of the peat and the manure making an excellent fertilizer for use on garden or lawn. Spread evenly to the depth of an inch for chicks, and three or four inches thick for adult fowls. Price, small bale, \$1.50; large bale, \$3.50.

MISCELLANEOUS GRAIN FEEDS

Qt.	Pk.		Bushel	
\$1.12	\$1.70	Chicken Millet (Yellow)	(50 lb.)	\$2.25
.12	.70	Pigeon Millet (Red)	(50 lb.)	2.25
.10	.50	Kafir Corn	(56 lb.)	1.60
.20	1.25	No. 1 Canada Field Peas	(60 lb.)	4.25
.15	.80	No. 2 Pigeon Field Peas	(56 lb.)	2.75
.15	.75	Russian Sunflower	(25 lb.)	2.25
.12	.75	Hemp Seed	(40 lb.)	2.50
.25	1.30	Canary Seed	(60 lb.)	4.25
.20	1.30	Bird Rape	(50 lb.)	4.50
.10	.65	Hulled Oats	(50 lb.)	2.10
.15	.90	Cracked Rice	(70 lb.)	3.30
.15	.90	Large Bird Vetch	(56 lb.)	3.30

Special Prices
500 lbs. or over

We also carry at our Warehouse a large line of Mill Feeds, all kinds of feeding grains, Lump Rock Salt, Coarse and Fine Salt of every grade and for all purposes.

Prices on application. Orders filled promptly.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

P-T BRAND CHICK FOOD

A food specially prepared for baby chicks, turkeys, guineas, etc., consisting of selected grains milled to proper size, rolled oats, and granulated bone, proportioned to make a balanced ration for the first 4 or 5 weeks.

1/2 peck bag	\$.30
1/2 Bu. bag	.85
50 lb. bag	1.55
100 lb. bag	2.90

PRATT'S
BABY CHICK FOOD

2 1/2 lb. package	\$.25
5 lb. package	.40
10 lb. bag	.70
25 lb. bag	1.40
50 lb. bag	2.60

THE CONKEY CHAIN OF
BUTTERMILK FEEDS

STARTING FEED WITH Y-O
"Y-O" Is Yeast and Cod Liver Oil

2 1/2 lb. package	\$.20
5 lb. package	.35
10 lb. package	.60
25 lb. bag	1.20
50 lb. bag	2.35
100 lb. bag	4.60

GROWING MASH

10 lb. bag	\$.50
25 lb. bag	1.10
50 lb. bag	2.00
100 lb. bag	3.85

"GECCO" EGG MASH

	With Y-O	Without Y-O
10 lb. bag		\$.45
25 lb. bag	\$ 1.05	1.00
50 lb. bag	1.95	1.85
100 lb. bag	3.80	3.60

UNIVERSAL
LAYING MASH
With Meatmeal and Buttermilk

5 lb. bag	\$.25
20 lb. bag	.85
50 lb. bag	1.70
100 lb. bag	3.25

CROWN PIGEON FEED

1/2 pk. bag	\$.30
1/2 bu. bag	1.05
50 lb. bag	1.80
100 lb. bag	3.50

SPECIAL PIGEON FEED
Contains No Corn

25 lb. bag	\$ 1.10
50 lb. bag	2.10
100 lb. bag	4.00

GRANULATED CHARCOAL
Sizes: Coarse, Medium & Fine

1 qt. package	\$.05
1/2 pk. package	.15
1/2 bu. bag	.50
1 bu. bag	.75
50 lb. lined bag	1.60

CHRISTINA POULTRY FEEDS

Mixed Grains—Whole or Cracked to Proper Size

	1/2 Pk. Bag	1/2 Bu. Bag	50 Lb. Bag	100 Lb. Bag
CHICK FOOD			\$ 1.55	\$ 2.90
DEVELOPING FOOD	\$.30	.85	1.55	2.90
SCRATCH FOOD	.25	.80	1.50	2.85

	Small Package	Large Package	25 lb. Bag	50 lb. Bag	100 lb. Bag
SPECIAL FEEDS					
Rolled Oats—(90 lb. bag, price on application)....			\$ 1.20	\$ 2.20	
Cracked Oats			1.20	2.20	4.25
Mealed Alfalfa			.85	1.50	2.80
Short Cut Alfalfa	\$.10	\$.25	.80	1.40	2.60
H-P Beef Scrap	.10	.25	1.10	2.10	3.90
Fish Meal, high in protein	.10	.25	1.15	2.15	4.15
Granulated Bone (about size of wheat)	.10	.25	1.10	2.00	3.80
Sterilized Feeding Bone Meal			1.10	2.00	3.80
Crushed Oyster Shell (2 sizes)	.05	.10	.35	.60	1.00
Grit (3 sizes)	.05	.10	.35	.60	1.00
Blatchford's Calf Meal			1.50	2.85	5.50
Digester (Hog) Tankage			1.25	2.25	4.25
Flaked or Dry Buttermilk (less than 25 lb. @ 15c per lb.)			2.75	5.25	10.00
Powdered Skim Milk (less than 25 lb. @ 15c per lb.)			2.75	5.25	10.00

Condensed or Semi-Solid Buttermilk (Prices on application)

OLD GRIST MILL PUPPY BISCUITS, 1 lb. carton, \$16; 3 lbs. for \$45; 25-lb. box, \$3.00.
OLD GRIST MILL DOG BISCUITS, 1-lb. carton, \$15; 3-lb. carton, \$40; 25-lb. box, \$2.50.
O. G. M. BROKEN DOG BISCUITS, in bags, 5 lbs., \$50; 25 lbs., \$2.15; 50 lbs., \$4.15 100 lbs., \$8.00.

LICE REMEDIES

Conkey's Lice Ointment, 1 oz., \$.10; 3 oz., \$.25.
 Conkey's Lice Liquid, 1 qt., \$.60; 2 qt., \$.90; 1 gal., \$1.50.
 Conkey's Lice Powder, 15 oz., \$.35; 48 oz., \$.75.
 Pratt's Lice Powder, 5 oz., \$.12; 1 lb., \$.25.
 Dr. Hess' Lice Powder, 1 lb., \$.25; 2½ lbs., \$.50.
 Tobacco Stems, 5 lbs., \$.20; 10 lbs., \$.35; 20 lbs., \$.60; bale (about 125 lbs.) \$1.60 per 100 lbs.
 Sulphur Candles, \$.15 each; \$1.50 per doz.
 Carbola. A disinfecting white paint. Prices on page 16.

CONKEY'S CONDITION POWDERS, REMEDIES, ETC.

Conkey Roup Remedy (Powder) .....	.25	.50	\$1.00	\$2.35	\$5.25	(Postpaid)
Conkey Roup Pills .....	.25	.50				(Postpaid)
Conkey Cholera Remedy .....	.25	.50	1.00			(Postpaid)
Conkey Poultry Worm Remedy .....	.25	.50				(Postpaid)
Conkey Diarrhoea Remedy .....	.25	.50	1.00			(Postage, 5c extra)
Conkey Chicken Pox (Sorehead) Remedy .....	.25	.50				(Postage, 5c extra)
Conkey Gape Remedy .....	.25	.50				(Postage, 5c extra)
Conkey Scaly Leg Remedy .....	.25					(Postage, 5c extra)
Conkey Salve for Fleas (Sticktight) .....	.25					(Postage, 5c extra)
Conkey Blackhead Remedy .....		.50				(Postage, 5c extra)
Conkey Limberneck Remedy .....		.50				(Postage, 5c extra)
Conkey Canker Remedy .....		.50				
Conkey Noxide (Disinfectant), 1 pint, \$.50; 1 qt., \$.80; 2 qts., \$1.25; 1 gal., \$2.00; 5 gals., \$9.00.						
Conkey Fly Knocker, 1 qt., \$.60; 2 qts., \$.90; 1 gal., \$1.50; 5 gals., \$7.00.						
Conkey Poultry Tonic (powder), 1½ lbs., \$.25; 3¼ lbs., \$.50; 7 lbs., \$1.00.						
Conkey Y-O (Yeast and Cod Liver Oil), 1 lb., \$.55; 2 lbs. \$1.00; 5 lbs., \$2.00; 25 lbs., \$7.50; 50 lbs., \$14.00.						
Conkey Buttermilk Feeds. See page 14.						

DR. HESS AND CLARK'S CONDITION POWDERS AND REMEDIES

Dr. Hess Poultry Panacea, 1½ lbs., \$.25; 5 lbs., \$.75; 12 lbs., \$1.50; 25-lb. pail, \$3.00.
 Dr. Hess Stock Tonic, 3½ lbs., \$.50; 10 lbs., \$1.25; 25-lb. pail, \$3.00; 100-lb. drum, \$10.00.
 Dr. Hess Healing Powder (for sores), \$.25 and \$.50.
 Dr. Hess Heave Remedy, \$.50.
 Dr. Hess Stock Worm Powder, \$.50.
 Dr. Hess Poultry Worm Powder, \$.50; \$1.25; \$2.75.
 Dr. Hess Diarrhoea Tablets, \$.50.
 Dr. Hess Roup Tablets, \$.50.
 Dr. Hess Dip and Disinfectant, 12-oz. bottle, \$.40; 1-qt. can, \$.65; 1 gal., \$1.80.
 Dr. Hess Fly Chaser, ½ gal. can, \$.90; 1 gal. can, \$1.50.

PRATT'S CONDITION POWDERS AND REMEDIES

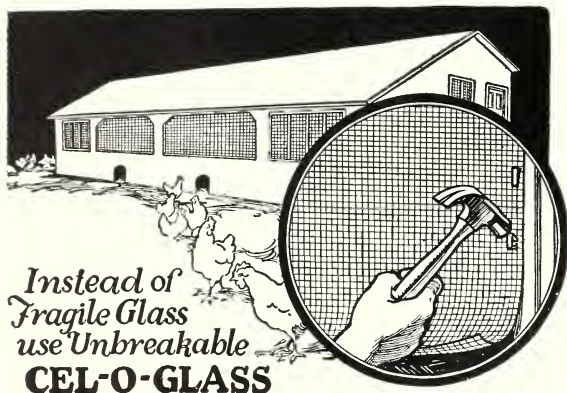
Pratt's Poultry Regulator, 24 oz., \$.25; 4 lbs., \$.50; 12-lb. pail, \$1.65; 25-lb. pail, \$3.00.
 Pratt's Stock Regulator, \$.25. Stock Conditioner, 6½ lbs., \$.60.
 Pratt's Heave Remedy, \$.50.
 Pratt's Worm Powders, \$.50.
 Pratt's Diarrhoea Remedy, \$.25.
 Pratt's Roup Tablets, \$.25.
 Pratt's Baby Chick Food. See Page 14.

POUL-TOBAC. For round worms in poultry. 2-lb. carton, \$.35; 10-lbs., \$.75; 25 lbs., \$1.50 (postage extra).
 BARKER'S SPECIAL POULTRY POWDER, 1½ lbs., \$.30; 4 lbs., \$.60.
 BARKER'S HORSE AND CATTLE POWDER, 20 oz., \$.30; 5 lbs., \$1.00.
 KOW KARE (formerly Kow Kure), 1¼ lbs., \$.65; 2¾ lbs., \$1.25 (Postage extra).
 BAG BALM, for sore teats, strictures, etc., \$.60.
 K. R. O. RAT KILLER, (Will not kill domestic animals), 2 oz. pkg. \$.75.
 RAT SNAP (Poison Biscuit), 1 oz., \$.35; 3 ozs., \$.65; 7½ ozs., \$1.25 (Postpaid).
 GUARDIAN DOG SOAP (Kills fleas, non-poisonous), \$.25 per cake.

GLASS SUBSTITUTES

"CEL-O-GLASS" and "GLASS CLOTH"

Light and strong. Keeps out wind and storms; admits light and warmth, and transmits the valuable ultra violet rays of the sun. Can be cut with shears to any desired shape. Especially useful for poultry houses, hotbed sash, green houses and other buildings. Very serviceable, and if punctured can be repaired. Ask for samples and descriptive circulars.



Galvanized wire cloth covered with a translucent, flexible substance that will not peel or break. Light and strong.

Rolls are 3 feet wide

100 ft. roll \$42.00
50 ft. roll 21.50
25 ft. roll 11.00

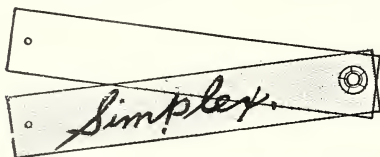
Shorter lengths at 50c lineal ft.

If wanted by parcel post add postage at the rate of 1 lb. per sq yd.

GLASS CLOTH. A specially processed strong fabric treated to render it transparent. Rolls are 35 inches wide.

300 ft. roll \$27.00
150 ft. roll 14.00
45 ft. roll 4.50

Shorter lengths at 15c lineal ft.



WEATHERPROOF PLANT LABELS

Write desired marking on card with ordinary lead pencil underneath the transparent sheet; copper wires furnished for attaching label.

	Sizes	Doz.	25	50
No. 1	1/2 x 3 inches.....	\$4.5	\$8.5	\$1.60
No. 2	3/4 x 4 inches.....	.70	1.35	2.60
No. 3	1 x 5 inches.....	1.00	1.85	3.60

HEXAGON POULTRY WIRE

Cut Lengths				Per Roll
25 ft.	50 ft.	100 ft.	1-in. Mesh	150 ft.
\$60	\$1.10	\$1.95	12 in. wide	\$2.50
.85	1.55	2.85	18 in. wide	3.60
1.05	2.00	3.75	24 in. wide	4.80
1.25	2.30	4.25	30 in. wide	5.50
1.35	2.50	4.70	36 in. wide	6.30
			2-in. Mesh	
.50	.85	1.60	24 in. wide	2.00
.65	1.15	2.20	36 in. wide	2.80
.80	1.50	2.90	48 in. wide	3.70
1.10	1.95	3.70	60 in. wide	4.60
1.25	2.30	4.40	72 in. wide	5.50

(One pound staples free with each full roll of wire)

GALVANIZED STAPLES, 10 cents per lb.

LEG BANDS

Aluminum bands are numbered; celluloid bands in different colors. Easily attached and secure. When ordering always state breed of fowl on which bands are to be used.

	Doz.	25	50	100
Poultry Bands	\$15	\$25	\$35	\$65
Open Pigeon (Aluminum) .12	.20	.35	.60	

MARKING PUNCHES

Philadelphia Punch	\$25 (or \$30 postpaid)
Petty's Punch .....	.25 postpaid
Ideal Punch .....	.50 postpaid

KNIVES FOR KILLING POULTRY

Made of instrument steel; several patterns.
50 cents each; 60 cents postpaid

GAPE WORM EXTRACTORS

A simple and efficient instrument
25 cents each; 30 cents, postpaid

WIRE POULTRY NESTS

Made of copperd wire mounted on heavy ring
\$.20 each, \$2.00 per doz.

CHINA NEST EGGS

30c Per Doz.

ROUND ROD SHIPPING COOPS

Extra height	Made of hard wood	
Chicken Size	14 inches high.....	\$1.90
Turkey Size	20 inches high.....	2.25
Special price on 10 or more coops		

CARBOLA

A powdered white mineral paint combined with a powerful germicide. Kills parasites and disease germs. Better than whitewash. Simply mix with water to the consistency of whitewash and apply with brush or spray pump.

5 lb. package	\$75
10 lb. package	1.25
25 lb. bag	2.75
50 lb. bag	5.00

A Beautiful Lawn

is obtained only by much thought and a great deal of careful attention over a period of years. In making a new lawn the first step is a thorough preparation of the ground. It should be turned to a depth of six or eight inches. If the soil is of a heavy character there should be applied a dressing of humus, peat moss or like material, and if there is indication of a sour or acid condition make an application of lime; these are then mulched in during the further working to break up the ground. Finally go over it several times in different directions with a steel-tooth rake until the soil is pulverized to a depth of two or three inches. During this pulverizing process is the time to work in a fertilizer; we recommend bone meal or sheep manure, or a mixture of the two. (Stable manure should never be used on lawns as it is a prolific source of weed seed).

The ground is now ready for the seed, which should be sown as evenly as possible, selecting a time when there is little or no breeze stirring; tamp or roll lightly in order to "set" the seed and sprinkle moderately each day when this is not obtained from showers. Sow during March or April and in September or October at the rate of 5 Qts. per 1000 sq. ft., or 6 Bu. per acre.

Use the best seed obtainable. If a ready mixed seed is used do not let price be the determining factor; mixtures can be sold at a wide range of prices dependent on the grade of seed and the varieties used. Grass seeds have been a matter of careful study on our part for some years. We carry in stock a number of varieties, and our mixtures are made up of kinds especially adapted to the purposes for which they are to be used, and carefully selected for purity and germination.

The established lawn will need attention from time to time in order to keep a good sod. The roots need food and this should be supplied by the application of a top dressing once or twice a year; bone meal or sheep manure, or a mixture of the two with the addition of 10% of Sulphate of Ammonia makes a very excellent dressing, applying 30 lbs. per 1,000 sq. ft., or 1,200 lbs. per acre. Maintain a thick setting of grass by reseeding wherever thin places develop. This is one of the best ways to discourage the growth of weeds and obnoxious grasses.

A list of grass seeds and mixtures will be found on page 5, and on page 8 will be found fertilizers and soil conditioners listed, together with a table suggesting the quantities to be used.

Seeding Schedule of Field Seed

	Weight Per Bus.	Quantity Per Acre	Time of Seeding
Barley	48	2 Bu.	April-June
Blue Grass, standard	14	4 Bu.	Apr.-June Aug.-Sept.
Blue Grass, fancy	20	1½ to 2 Bu.	Apr.-June Aug.-Sept.
Buckwheat	48	1 to 1½ Bu.	May-June
Cane, Sorghum	50	1 Bu.	May-June
Corn	56	8 Qts.	May-June
Corn, Ensilage	56	20 Qts.	May-June
Corn, Sweet	45	10 Qts.	May-July
Clover, Alfalfa	60	12 Qts.	Apr.-May Aug.-Sept.
Clover, Alsike	60	4 Qts.	Feb.-June Aug.-Nov.
Clover, Crimson	60	8 to 10 Qts.	July-Sept.
Clover, Red	60	4 to 6 Qts.	Feb.-Apr. Aug.-Nov.
Clover, Sweet	60	8 to 12 Qts.	Apr.-May Aug.-Sept.
Clover, White	60	3 Qts.	Apr.-June Aug.-Oct.
Kafir	56	16 Qts.	May-June
Meadow Fescue	14	2 Bu.	Apr.-May Aug.-Sept.
Millet, Golden	50	1 Bu.	May-July
Millet, Hungarian	48	1 Bu.	May-July
Oats	32	2 Bu.	March-May
Orchard Grass	14	2 Bu.	Apr.-May Aug.-Sept.
Peas, Canada, broadcast ..	60	2 Bu.	Feb.-April
Peas, Canada, drilled	60	1½ Bu.	Feb.-April
Peas, Cow, broadcast	60	1½ Bu.	May-Aug.
Peas, Cow, drilled	60	1¼ Bu.	May-Aug.
Permanent Pasture	25	1 to 2 Bu.	Apr.-June Aug. Sept.
Rape, Dwarf Essex	50	4 Qts.	April-Aug.
Red Top, fancy	32	16 Qts.	Apr.-June Sept.-Nov.
Red Top, standard	14	2 Bu.	Apr.-June Sept.-Nov.
Rye, Winter	56	1½ Bu.	Sept.-Nov.
Rye Grass	25	1½ Bu.	Apr.-June Aug.-Oct.
Soy Beans, broadcast	60	1 to 1½ Bu.	May-Aug.
Sudan	50	16 Qts.	Apr.-June
Timothy	45	6 to 8 Qts.	Apr.-June Aug.-Nov.
Timothy and Clover:			
{ Timothy		6 Qts.	
{ Clover		2 Qts.	
Vetch, Spring	60	1 Bu.	March-May
Vetch, Winter	60	½ Bu.	Aug.-Nov.
Wheat	60	2 Bu.	Sept.-Oct.